

In the specification:

Please replace paragraph 88 with the following amended paragraph:

[0088] Another application where two-dimensional diagonal summing can be used is elemental analysis. To illustrate this, an experimental arrangement similar to that shown in **Figure 1** was used. The sample used was coal, approximately 22 Kg kg, with 100 grams of mercury (powder form) mixed in it. The techniques in this example can be used to identify the mercury in the sample.